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1 [An analytical model for buffer hit rate prediction](#)

Yongli Xi, Patrick Martin, Wendy Powley

 November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: pdf(100.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Of the many tuning parameters available in a database management system (DBMS), one of the most crucial to performance is the buffer pool size. Choosing an appropriate size, however, can be a difficult task. In this paper we present an analytical modeling approach to predicting the buffer pool hit rate that can be used to simplify the process of buffer pool sizing. A Markov Chain model is used to estimate the hit rate for buffer pools in IBM's DB2 Universal Database. We present and experimental ...

2 [Concurrent operations on extendible hashing and its performance](#)



Vijay Kumar

 June 1990 **Communications of the ACM**, Volume 33 Issue 6

Publisher: ACM Press

 Full text available: pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Extendible hashing is a dynamic data structure which accommodates expansion and contraction of any stored data efficiently. In this article, an algorithm has been developed for managing concurrent operations on extendible hashing by achieving optimal memory utilization by supporting directly expansion and contraction, page split, and merge. The results of this study have been encouraging in the sense that it seems to provide a higher degree of concurrency compared to other algorithms on an ...

Keywords: atomic, blocking, global depth, local depth, pseudo key, roll back, verification process

3 [Research articles and surveys: Research issues in automatic database clustering](#)



Sylvain Guinepain, Le Gruenwald

 March 2005 **ACM SIGMOD Record**, Volume 34 Issue 1

Publisher: ACM Press

 Full text available: pdf(1.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While a lot of work has been published on clustering of data on storage medium, little has been done about automating this process. This is an important area because with data proliferation, human attention has become a precious and expensive resource. Our goal is to develop an automatic and dynamic database clustering technique that will dynamically re-cluster a database with little intervention of a database administrator (DBA) and maintain an acceptable query response time at all times. In th ...

4 Scalability for clustering algorithms revisited



Fredrik Farnstrom, James Lewis, Charles Elkan
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: [pdf\(885.84 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

5 Query processing and optimization in Oracle Rdb



Gennady Antoshenkov, Mohamed Ziauddin

December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(92.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper contains an overview of the technology used in the query processing and optimization component of Oracle Rdb, a relational database management system originally developed by Digital Equipment Corporation and now under development by Oracle Corporation. Oracle Rdb is a production system that supports the most demanding database applications, runs on multiple platforms and in a variety of environments.

Keywords: Dynamic optimization, Optimizer, Query transformation, Relational database, Sampling

6 Vclusters: a flexible, fine-grained object clustering mechanism



Mark L. McAuliffe, Michael J. Carey, Marvin H. Solomon

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available: [pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We consider the problem of delivering an effective fine-grained clustering tool to implementors and users of object-oriented database systems. This work emphasizes on-line clustering *mechanisms*, as contrasted with earlier work that concentrates on clustering *policies* (deciding which objects should be near each other). Existing on-line clustering methods can be ineffective and/or difficult to use and may lead to poor space utilization on disk and in the disk block cache, particularl ...

7 Data streams: Flexible time management in data stream systems



Utkarsh Srivastava, Jennifer Widom

June 2004 **Proceedings of the twenty-third ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '04**

Publisher: ACM Press

Full text available: [pdf\(237.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Continuous queries in a Data Stream Management System (DSMS) rely on time as a basis for windows on streams and for defining a consistent semantics for multiple streams and updatable relations. The system clock in a centralized DSMS provides a convenient and

well-behaved notion of time, but often it is more appropriate for a DSMS application to define its own notion of time---its own clock(s), sequence numbers, or other forms of ordering and times-tamping. Flexible application-defined time poses ...

8 Online data migration for autonomic provisioning of databases in dynamic content web servers

Gokul Soundararajan, Cristiana Amza

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available:  [pdf\(757.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces an efficient data migration technique for provisioning new databases to workloads in dynamic content servers. Although many solutions for database replication exist, an efficient method for joining new replicas to a running system has not been implemented. We propose and implement a data migration algorithm that allows quick addition of replicas with minimal disruption of transaction processing. Furthermore, we show that our approach can also be used for fault management an ...

9 Network behavior: TCP Nice: a mechanism for background transfers



Arun Venkataramani, Ravi Kokku, Mike Dahlin

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available:  [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Many distributed applications can make use of large *background transfers*--transfers of data that humans are not waiting for--to improve availability, reliability, latency or consistency. However, given the rapid fluctuations of available network bandwidth and changing resource costs due to technology trends, hand tuning the aggressiveness of background transfers risks (1) complicating applications, (2) being too aggressive and interfering with other applications, and (3) being too timid a ...


10 Ripple joins for online aggregation



Peter J. Haas, Joseph M. Hellerstein

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We present a new family of join algorithms, called ripple joins, for online processing of multi-table aggregation queries in a relational database management system (DBMS). Such queries arise naturally in interactive exploratory decision-support applications. Traditional offline join algorithms are designed to minimize the time to completion of the query. In contrast, ripple joins are designed to minimize the time until an acceptably precise estimate of the query result is available ...

11 Indexing mobile objects using dual transformations

George Kollios, Dimitris Papadopoulos, Dimitrios Gunopoulos, J. Tsotras

April 2005 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 14 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(659.63 KB\)](#) Additional Information: [full citation](#), [abstract](#)

With the recent advances in wireless networks, embedded systems, and GPS technology, databases that manage the location of moving objects have received increased interest. In this paper, we present indexing techniques for moving object databases. In particular, we

propose methods to index moving objects in order to efficiently answer range queries about their current and future positions. This problem appears in real-life applications such as predicting future congestion areas in a highway system ...

Keywords: Access methods, Mobile objects, Spatiotemporal databases

12 Efficient implementation of the smalltalk-80 system



L. Peter Deutsch, Allan M. Schiffman

January 1984 **Proceedings of the 11th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Publisher: ACM Press

Full text available: [pdf\(595.22 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Smalltalk-80* programming language includes dynamic storage allocation, full upward funargs, and universally polymorphic procedures; the Smalltalk-80 programming system features interactive execution with incremental compilation, and implementation portability. These features of modern programming systems are among the most difficult to implement efficiently, even individually. A new implementation of the Smalltalk-80 system, hosted on a small microprocessor-based computer, achieves high ...

13 Mining in a data-flow environment: experience in network intrusion detection



Wenke Lee, Salvatore J. Stolfo, Kui W. Mok

August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: [pdf\(1.26 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Research track: Finding recent frequent itemsets adaptively over online data streams



Joong Hyuk Chang, Won Suk Lee

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: [pdf\(314.49 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A data stream is a massive unbounded sequence of data elements continuously generated at a rapid rate. Consequently, the knowledge embedded in a data stream is more likely to be changed as time goes by. Identifying the recent change of a data stream, specially for an online data stream, can provide valuable information for the analysis of the data stream. In addition, monitoring the continuous variation of a data stream enables to find the gradual change of embedded knowledge. However, most of m ...

Keywords: data stream, decay mechanism, delayed-insertion, pruning of itemsets, recent frequent itemsets

15 The performance of multiversion concurrency control algorithms



Michael J. Carey, Waleed A. Muhanna

September 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.65 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A number of multiversion concurrency control algorithms have been proposed in the past

few years. These algorithms use previous versions of data items in order to improve the level of achievable concurrency. This paper describes a simulation study of the performance of several multiversion concurrency control algorithms, investigating the extent to which they provide increases in the level of concurrency and also the CPU, I/O, and storage costs resulting from the use of multiple versions. T ...

16 The POSTGRES next generation database management system



Michael Stonebraker, Greg Kemnitz

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Publisher: ACM Press

Full text available: [pdf\(5.74 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Extended relational database management systems, POSTGRES

17 Object and query transformation: supporting multi-dimensional queries through code reuse



reuse

Byunggu Yu, Ratko Orlandic

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(223.49 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: database systems, object transformation, point access methods, spatial access methods

18 Self-stabilizing algorithms for synchronous unidirectional rings



Alain Mayer, Rafail Ostrovsky, Moti Yung

January 1996 **Proceedings of the seventh annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Self-stabilizing symmetry breaking in constant-space (extended abstract)



Alain Mayer, Yoram Ofek, Rafail Ostrovsky, Moti Yung

July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate the problem of self-stabilizing round-robin token management scheme on an anonymous bidirectional ring of identical processors, where each processor is an asynchronous probabilistic (coin-flipping) finite state machine which sends and receives messages. We show that the solution to this problem is equivalent to symmetry breaking (i.e., leader election). Requiring only constant-size messages and message-passing model has practical implications: our solution can be implemented ...

20



Research papers: streams: Fault-tolerance in the Borealis distributed stream

processing system

Magdalena Balazinska, Hari Balakrishnan, Samuel Madden, Michael Stonebraker

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data****Publisher:** ACM PressFull text available: [pdf\(612.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a replication-based approach to fault-tolerant distributed stream processing in the face of node failures, network failures, and network partitions. Our approach aims to reduce the degree of inconsistency in the system while guaranteeing that available inputs capable of being processed are processed within a specified time threshold. This threshold allows a user to trade availability for consistency: a larger time threshold decreases availability but limits inconsistency, while a small ...

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1 [Data streams: Flexible time management in data stream systems](#)



Utkarsh Srivastava, Jennifer Widom

 June 2004 **Proceedings of the twenty-third ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '04**

Publisher: ACM Press

 Full text available: [pdf\(237.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Continuous queries in a Data Stream Management System (DSMS) rely on time as a basis for windows on streams and for defining a consistent semantics for multiple streams and updatable relations. The system clock in a centralized DSMS provides a convenient and well-behaved notion of time, but often it is more appropriate for a DSMS application to define its own notion of time---its own clock(s), sequence numbers, or other forms of ordering and times-tamping. Flexible application-defined time poses ...

2 [The POSTGRES next generation database management system](#)



Michael Stonebraker, Greg Kemnitz

 October 1991 **Communications of the ACM**, Volume 34 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(5.74 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Extended relational database management systems, POSTGRES

3 [Reliable communication in the presence of failures](#)



Kenneth P. Birman, Thomas A. Joseph

 January 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(2.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The design and correctness of a communication facility for a distributed computer system are reported on. The facility provides support for fault-tolerant process groups in the form of a family of reliable multicast protocols that can be used in both local- and wide-area networks. These protocols attain high levels of concurrency, while respecting application-specific delivery ordering constraints, and have varying cost and performance that depend on the degree of ordering ...

4 The aggregate level simulation protocol: an evolving system

Annette L. Wilson, Richard M. Weatherly

December 1994 **Proceedings of the 26th conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available:  [pdf\(691.21 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)




5 Sense'n respond solutions: Meteorological command and control: an end-to-end architecture for a hazardous weather detection sensor network

Michael Zink, David Westbrook, Sherief Abdallah, Bryan Horling, Vijay Lakamraju, Eric Lyons, Victoria Manfredi, Jim Kurose, Kurt Hondl

June 2005 **Proceedings of the 2005 workshop on End-to-end, sense-and-respond systems, applications and services EESR '05**

Publisher: USENIX Association

Full text available:  [pdf\(248.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



We overview the software architecture for a network of low-powered radars (sensors) that collaboratively and adaptively sense the lowest few kilometers of the earth's atmosphere. We focus on the system's main control loop -- ingesting data from remote radars, identifying meteorological features in this data, and determining each radar's future scan strategy based on detected features and end-user requirements. Our initial benchmarks show that that these components generally have sub-second execu ...

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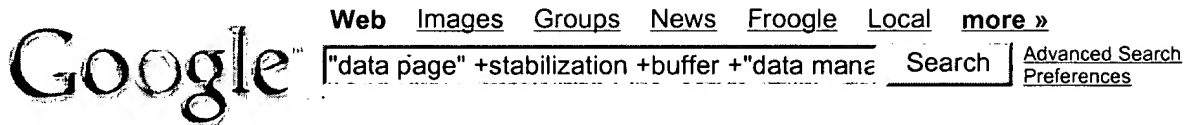
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